

## CLAIMS

What is claimed is:

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1. A method of implementing an optical data transmission of a mobile station, in which method the mobile station, which comprises means for transmitting and/or receiving data in optical format, is arranged in a mobile station stand which stand comprises at least one data transmission element which receives optical signals transmitted by the mobile station and/or transmits to the mobile station optical signals intended for the mobile station, wherein the optical signals transmitted by the mobile station are transmitted in optical format through the data transmission element and on to an area surrounding the stand wherein the optical signals coming from the surrounding area and intended for the mobile station are transmitted in optical format through the data transmission element on to an optical receiver of the mobile station.

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2. A method as claimed in claim 1, wherein the optical signal comprises infra-red light.

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3. A method as claimed in claim 1, wherein the optical signal comprises visible light.

4. A method as claimed in claim 1, wherein the optical signal comprises ultra-violet light.

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5. A data transmission element which is arranged to receive optical signals transmitted by an optical transmitter of a mobile station and to transmit optical signals to an optical receiver of the mobile station, wherein the optical signals transmitted by the optical transmitter of the mobile station and the optical signals intended for the optical receiver of the mobile station are arranged to propagate in an optical format through the data transmission element.

6. A data transmission element as claimed in claim 5, wherein the optical signal is arranged to propagate in the data transmission element mainly by refraction.

5 7. A data transmission element as claimed in claim 5, wherein the optical signal is arranged to propagate in the data transmission element mainly by reflection.

8. A data transmission element as claimed in claim 7, wherein at least one reflector is arranged in the data transmission element.

10 9. A data transmission element as claimed in claim 5, wherein the data transmission element is an optical fiber.

15 10. A mobile station stand which comprises a space and attaching elements for attaching a mobile station detachably to the stand, and at least one data transmission element which is arranged to receive optical signals transmitted by an optical transmitter of the mobile station arranged in the stand and to transmit optical signals to an optical receiver of the mobile station, wherein the optical signals transmitted by the mobile station are arranged to pass in an optical format through the data transmission element and still as an optical signal to a surrounding area of the stand wherein optical signals  
20 received from the surrounding area of the stand to the data transmission element are arranged to pass in optical format through the data transmission element to the optical receiver of the mobile station.

25 11. A mobile station stand as claimed in claim 10, wherein the optical signal is arranged to propagate in the data transmission element mainly by refraction.

12. A mobile station stand as claimed in claim 10, wherein the optical signal is arranged to propagate in the data transmission element mainly by reflection.

30 13. A mobile station stand as claimed in claim 12, wherein at least one reflector is arranged in the data transmission element.

5 15. A mobile station stand as claimed in claim 10, wherein the stand is a desk stand.

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17. A mobile station stand as claimed in claim 10, wherein the stand is an installation stand.

19. A mobile station stand as claimed in claim 10, wherein charging means for charging the battery of the mobile station are arranged in the stand.

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